

Commonwealth of Kentucky
Division for Air Quality
EXECUTIVE SUMMARY

FINAL

Synthetic Minor, Construction / Operating

Permit: F-08-020

Equitable Gathering - Jenkins Compressor Station

Jenkins, KY 41537

September 9, 2008

Andrew True, Reviewer

SOURCE ID: 21-133-00109

AGENCY INTEREST: 100520

ACTIVITY: APE20080001

SOURCE DESCRIPTION:

Equitable Gathering, LLC has submitted an air permit application to construct and operate a new natural gas compressor station in Letcher County near Jenkins, Kentucky (Jenkins Station). The application was received by the Division for Air Quality on May 8, 2008. The station will be used to compress natural gas as it is being transported via pipeline. The Jenkins compressor station will consist of two (2) electric compressors, a glycol dehydration unit with associated natural gas fired reboiler, and six (6) small storage tanks. The emissions from the dehydrator unit will be vented to a flare for control of volatile organic compounds (VOC) and hazardous air pollutants (HAP).

Natural gas will enter the station via a distribution pipeline system and will be compressed using two (2) electric-powered compressors (Units #1 and #2). The compressed natural gas stream will then be processed through the triethylene glycol (TEG) dehydration unit. The dehydration unit will filter the natural gas and separate excess water using a distillation process in which heat is provided to the dehydrator column by a natural gas-fired reboiler, which will be rated at 1.0 million British thermal units per hour (mmBtu/hr). The natural gas stream from the dehydrator will then be reintroduced into the pipeline to be transported further along the distribution system. Liquid fractions removed from the natural gas via dehydration will be stored in small storage tanks at the station. The dehydrator exhaust will be vented to a flare for control of volatile organic compounds (VOC) and hazardous air pollutants (HAP).

PUBLIC AND U.S. EPA REVIEW:

On July 30, 2008 the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in Whitesburg Mt. Eagle in Whitesburg, Kentucky. In addition, notification of the issuance of the draft permit was sent to the U.S. EPA on July 15, 2008 via e-mail. The public comment period expired 30 days from the date of publication. No comments were received during this period. The permit is now being issued final.